

## Datasheet: MCA2315F BATCH NUMBER 163799

Description:	MOUSE ANTI PIG CD107a:FITC		
Specificity:	CD107a		
Other names:	LAMP-1		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	4E9/11		
Isotype:	lgG1		
Quantity:	0.1 mg		

# **Product Details**

Applications	This product has been reported to work in the following applications. This information				
	derived from testing within our laboratories, peer-reviewed publications or personal				
	communications from the originators. Please refer to references indicated for further				
	information. For general protocol recommendations, please visit <u>www.bio-</u>				
	rad-antibodies.com/protocols.				

	Yes	No	Not Determined	Suggested Dilution	
Flow Cytometry (1)				Neat	
Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates					
the antibody for use in their own system using appropriate negative/positive controls.					
(1) Membrane permeabilization is required for this application. The use of					
Leucoperm (Product Code <u>BUF09</u> ) is recommended for this purpose.					

Target Species	Pig		
Product Form	Purified IgG conjugate	ed to Fluorescein Isoth	niocyanate Isomer 1
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein A f
Buffer Solution	Phosphate buffered s	aline	
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum	Albumin	

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Porcine alveolar macrophages.
RRID	AB_566439
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.
Specificity	Mouse anti Pig CD107a, clone 4E9/11 recognizes porcine CD107a, a cell surface antigen, also known as lysosomal-associated membrane protein-1 or LAMP-1.
	CD107a is a type 1 single pass transmembrane glycoprotein expressed on macrophages and more weakly on monocytes and granulocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
References	<ol> <li>Bullido, R. <i>et al.</i> (1997) Monoclonal antibodies specific for porcine monocytes/macrophages: macrophage heterogeneity in the pig evidenced by the expression of surface antigens. <u>Tissue Antigens. 49 (4): 403-13.</u></li> <li>Carrillo, A. <i>et al.</i> (2002) Isolation and characterization of immortalized porcine aortic endothelial cell lines. <u>Vet Immunol Immunopathol. 89 (1-2): 91-8.</u></li> <li>Domenech, N. <i>et al.</i> (2003) Identification of porcine macrophages with monoclonal antibodies in formalin-fixed, paraffin-embedded tissues. <u>Vet Immunol Immunopathol. 94 (1-2): 77-81.</u></li> <li>Sánchez-Torres, C. <i>et al.</i> (2003) Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. Arch Virol. <u>148 (12): 2307-23.</u></li> <li>Toka, F.N. <i>et al.</i> (2009) Natural killer cell dysfunction during acute infection with foot-and-mouth disease virus. <u>Clin Vaccine Immunol. 16: 1738-49.</u></li> <li>Bullers, S.J. <i>et al.</i> (2014) The human tissue-biomaterial interface: a role for PPARγ- dependent glucocorticoid receptor activation in regulating the CD163+ M2 macrophage phenotype. <u>Tissue Eng Part A. 20: 2390-401.</u></li> <li>Mair, K.H. <i>et al.</i> (2013) Alphacoronavirus Protein 7 Modulates Host Innate Immune Response <u>J Virol. 87: 9754-67.</u></li> <li>van Hout, G.P. <i>et al.</i> (2015) Invasive surgery reduces infarct size and preserves cardiac function in a porcine model of myocardial infarction. <u>J Cell Mol Med. 19 (11): 2655-63.</u></li> <li>Toka, F.N. <i>et al.</i> (2018) Dose-Dependent Cardioprotection of Moderate (32°C) Versus Mild (35°C) Therapeutic Hypothermia in Porcine Acute Myocardial Infarction. <u>JACC Cardiovasc Interv. 11 (2): 195-205.</u></li> <li>Talker, S.C. <i>et al.</i> (2015) Magnitude and kinetics of multifunctional CD4+ and CD8β+ T cells in pigs infected with swine influenza A virus. <u>Vet Res. 46: 52.</u></li> </ol>

Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune <u>Vet Res. 39: 54.</u>	e cells in swine: an update.
Storage	This product is shipped at ambient temperature. It is recommen -20°C on receipt. When thawed, aliquot the sample as needed. short term use (up to 4 weeks) and store the remaining aliquots	Keep aliquots at 2-8°C for
	Avoid repeated freezing and thawing as this may denature the a frost-free freezers is not recommended. This product is photose protected from light.	
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2315F 10041	
Regulatory	For research purposes only	

### **Related Products**

### **Recommended Negative Controls**

#### MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	ad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M404129:220820'

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